**Multiplying decimals by 10, 100 and 1000**

When multiplying a decimal by a base of 10 (eg 10, 100, 1000, 10000 etc), simply hop the decimal point to the right by the amount of zeros in the base you are multiplying by.

Eg.

123.456 x 10 = 1234.56

1 zero hop right 1 place

3456.78912 x 1000 = 3456789.12

3 zeros hop right 3 places

**Dividing decimals by 10, 100 and 1000**

When dividing a decimal by a base of 10 (eg 10, 100, 1000, 10000 etc), simply hop the decimal point to the left by the amount of zeros in the base you are multiplying by.

Eg.

123.456 ÷ 10 = 12.3456

1 zero hop left 1 place

3456.78912 ÷ 1000 = 3.45678912

3 zeros hop left 3 places